

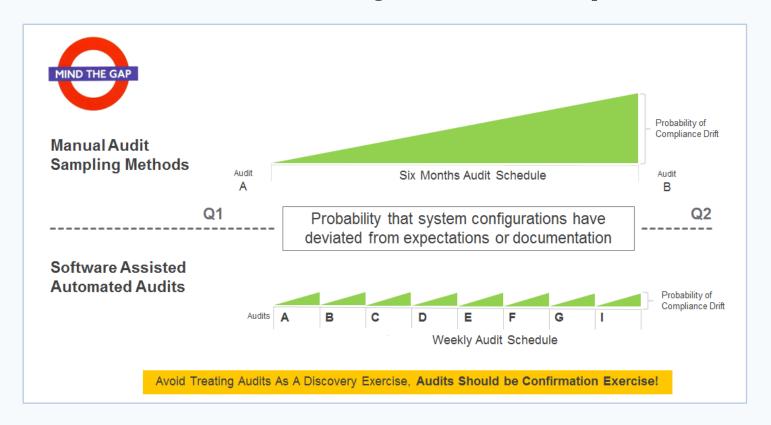
Continuous Compliance in Hybrid Environment

New Frontier in Unified Compliance, Configuration and File Integrity Management

Shailesh Athalye

VP, Compliance Solutions, Qualys, Inc.

2014: Good Old Days of Compliance





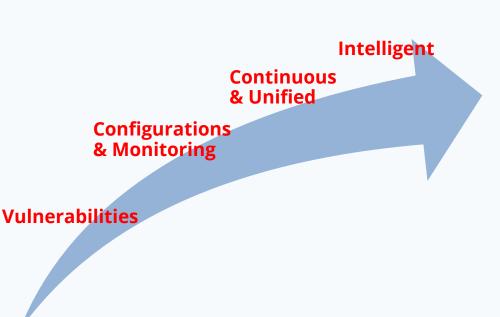
2020: Security is Continuous and Unified

To reduce the 'attack surface'

To reduce breaches due to misconfigurations, lack of monitoring

Question remains:

How to make Compliance and Risk continuous?





Semi-automated Way for Connecting is old!

Time to value

Time to see roll up the operational data

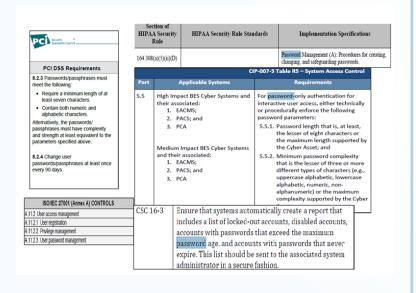
Varied types of Security and Assets data FIM, Patch, Malware, VM, threats Scoping and Tracking Assets

Point solutions injecting data with connectors, never normalize





Connect Security with Compliance and Risk





Inventory Your Systems

Inventory and Restrict Software Secure Configurations and Data Security Continuous VM

Review Access Rights



















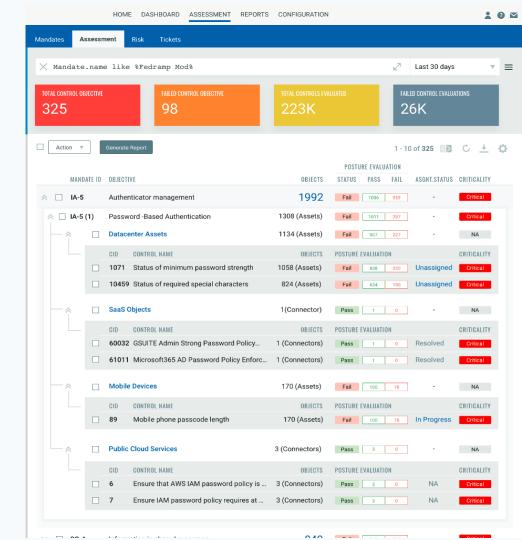
Continuous Compliance & Risk From Continuous Security





Continuous Risk and Compliance from Continuous Security

Qualys Unified Compliance maps every app's output to 25+ Compliance standards and Risk objectives



New-age Challenges: Teams Speaking Different Languages



Elastic, Kafka, custom web servers



Identify risk and compliance

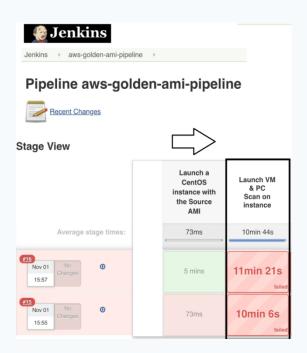


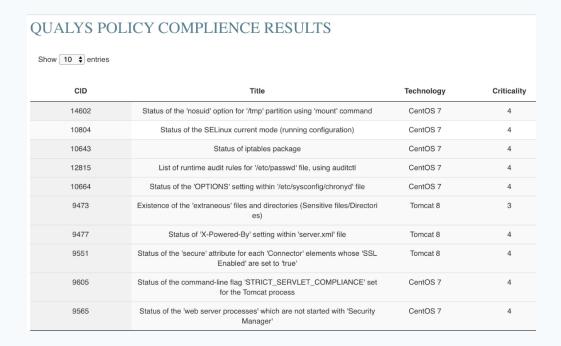
Secure hosts, config/integrity/ vulnerability management

Security & Compliance teams should be running with DevOps from the start



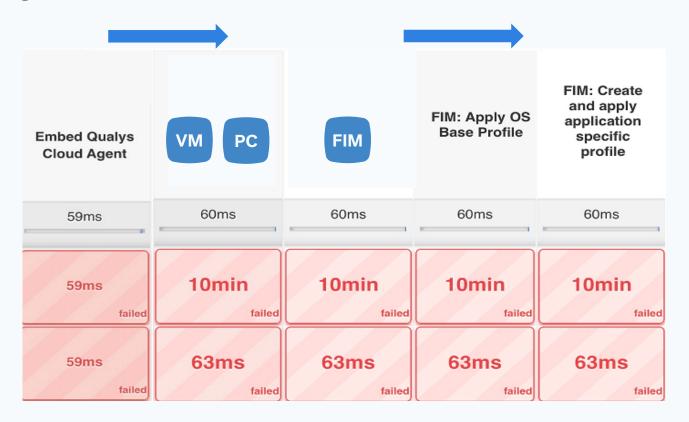
Start Compliant, Stay Compliant in DevOps with Qualys PC in <u>CI Phase</u>







Qualys FIM Monitors From <u>CD Phase</u>

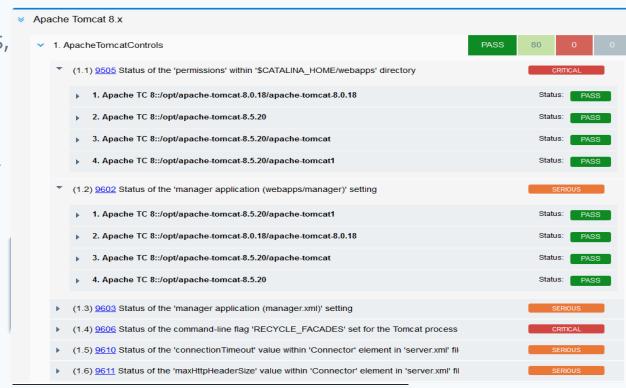




Automatically Discover and Assess Middleware with Dynamic Paths

Just based on host scans, discover unauthorized technologies, web servers, databases <u>automatically</u>

And...
There's no need to create authentication records



CISO Responsibility: Ensure Security Controls are in Place and Functioning

https://www.bitsight.com/blog/ciso-roles-and-responsibilities

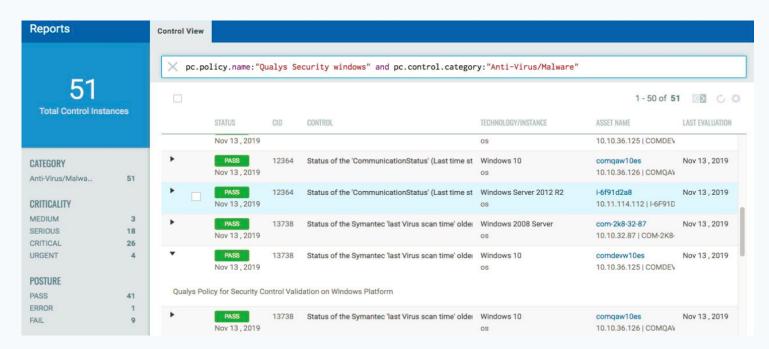
Is Anti-virus active, updated for signatures, scanning?
Is FIM, EDR agent configured correctly to monitor?
Are OS native application protection, memory protection configured?

Need to have Security Control Validation (SCV) in place to test and confirm that security tools have their pre-requisites in place and are configured properly on all endpoints



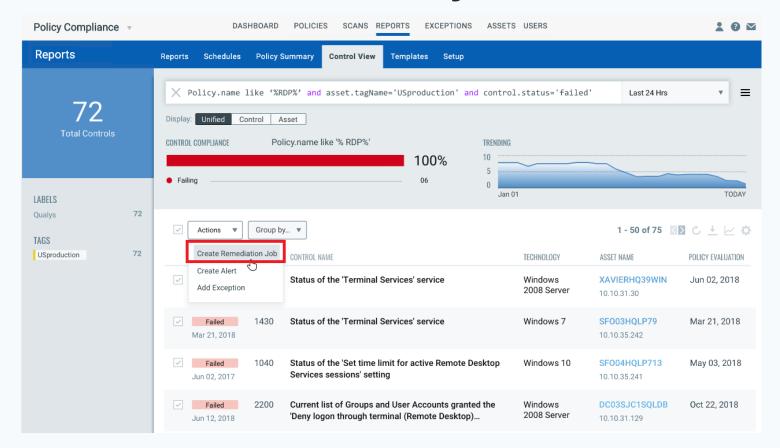
Security Control Validation from Policy Compliance

Anti-Virus technologies | Qualys FIM Agent | Splunk | Kafka | Native Malware Protection





Start Gold, Continuously Assess, Remediate





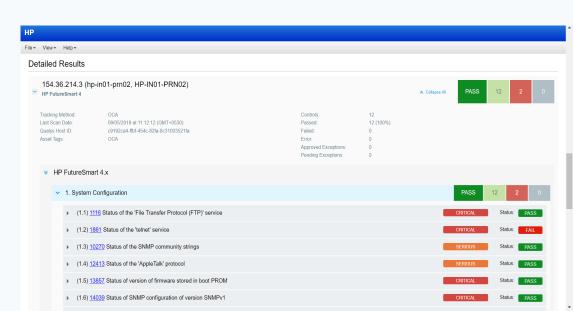
Network Devices, Printers and sensitive hosts can't be Scanned but are in Security & Compliance Scope

Use Qualys Out-of-Band Config Assessment (OCA)

- Create custom assets
- Push command output, vulnerability, config data

Controls validate settings

Report vulnerabilities, security and misconfigurations



Policy Compliance

Best in class technology and content coverage For Configuration Management

- >450 Policies, >14,000 controls
- >150 technologies (traditional, emerging)
- > Widest coverage for CIS, STIG, Mandates and beyond
- > Qualys security experts author CIS benchmarks

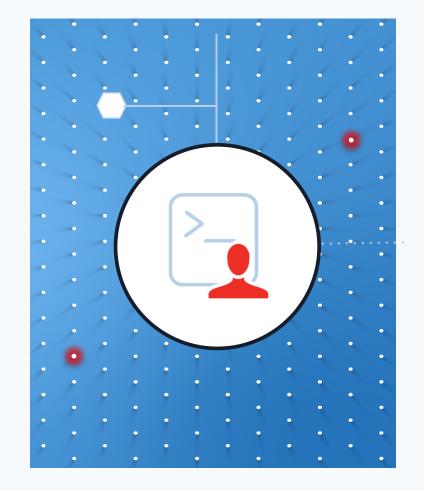
Data collection from all Qualys sensors

Custom database security & integrity controls

Auto-discovery of middleware technologies

File, Directory Integrity, Network Shares Monitoring

Auto-remediation for configuration failures





New PC UI and Customizable Dashboard

Policy Compliance Roadmap

Q4 - 2018

Faster PC agent data processing
File Content search for Windows
(Search sensitive content)
Auto-discovery for database
technologies

2020 Q1

New PC UI, customizable dashboards

Dynamic, real-time compliance against policies, mandates
Integration of PC/config data with Asset Inventory
Gold policies to fix configuration Issue 'upfront'
Ticketing integration with JIRA, ServiceNOW

2020 Q2

Configuration assessment for RDS

Automated alerting for compliance, config failuresSupport for executing scripts/commands for custom apps

PC agent support for web server technologies

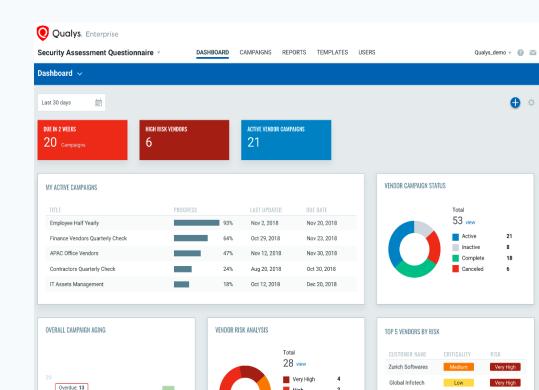
Compliance trending



Your security is only as strong as your weakest vendor

Qualys Security Assessment Questionnaire (SAQ) helps in in managing vendor risk per vendor criticality

With **SAQ**, consolidate your vendor security and process compliance with technical security posture on the same platform



File Integrity Monitoring (FIM)

Qualys FIM: In just Second Year, 190+ customers

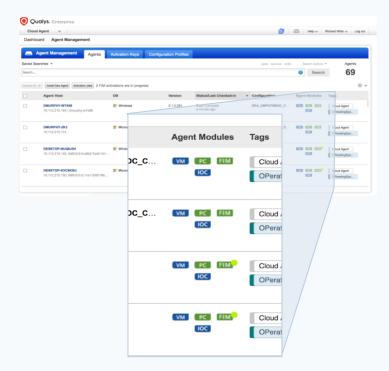
Built on the same Qualys Cloud Agent you use for VM, PC

Real-time detection for high volume, high scale

Automated incident management and alerting

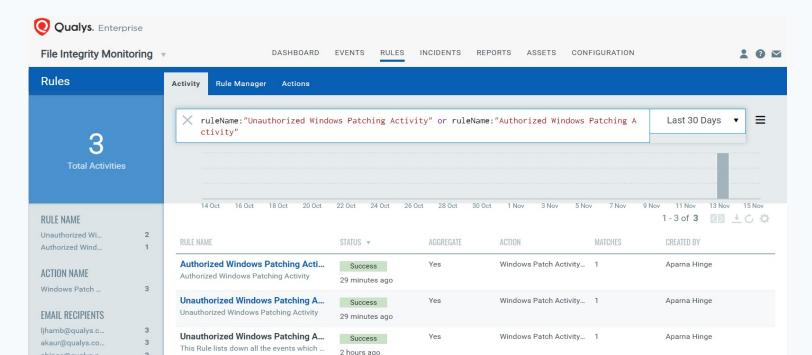
Out of the box PCI monitoring profiles for OS and applications

No infrastructure, data load for you to manage



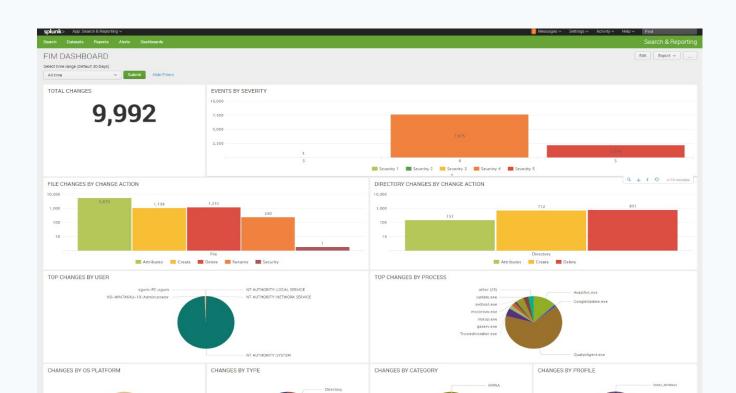


Alert and Incident Management for Authorized vs Unauthorized Changes During Patching with Qualys FIM



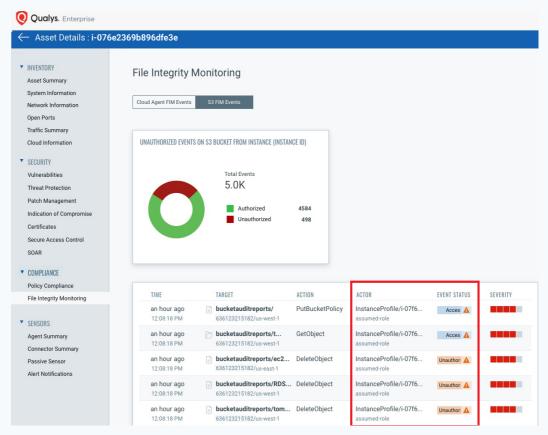


Open APIs: Integrate with Any External SIEM, DWH





Qualys FIM gives context of changes in cloud





FIM Demo

FIM Roadmap

Q4 - 2019

Process, user and time-period inclusions and exclusions for event data collection

Q4 - 2019

FIM hosts health and status: % of hosts with latest data, stale hosts with no changes, hosts without a FIM monitoring profile

2020 Q1

Windows Registry monitoring for changes
Injection of PC FIM UDC data to FIM
FIM for cloud storage (S3 bucket content monitoring) – cloud-trail
integration

Template-based reporting

2020 Q2

Monitoring for file content changes/text changes

External integration with JIRA, ServiceNOW Monitoring profiles – import/exports

Patch Reconciliation: Integration with Qualys Patch

Management for managing changes due to patching



Software as a Service (SaaS) Security & Compliance:

Even Cloud is bloated; Need just SaaS **Applications**

Public cloud spending skyrockets as SaaS shines **●**IDG

IDC: Cloud spending to grow 21% by 2021





Workday Rises on Demand for Business Cloud-Based Software Bloomberg







Spending On CRM Apps Predicted To Soar In 2018 COMPUTERWORLD





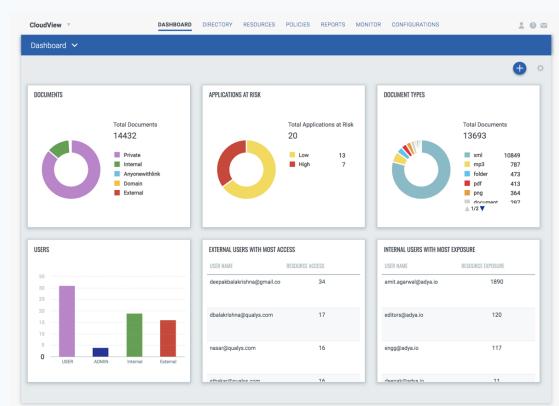


Manage Access, Exposure, Configuration and Compliance of SaaS Applications

Qualys SaaS Security and Compliance (SSC) enables

Inventory Access Exposure Security Configurations

of SaaS applications and resources E.g. Office365, Gsuite, Salesforce

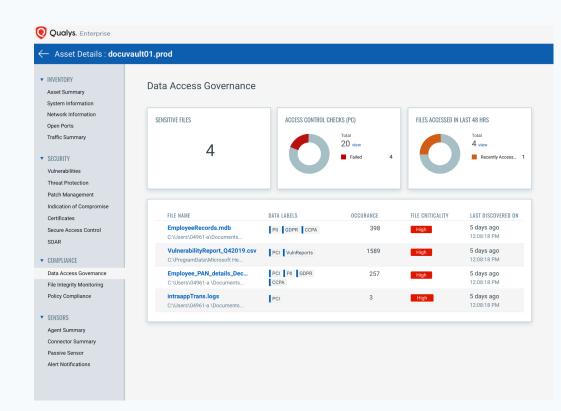


<u>Discover Sensitive data</u> and make sure it is secure and monitored for changes with Qualys DAG

Qualys Data Access Governance (DAG) will help with regulatory compliance

Discovery Access Visibility Activity Monitoring

For your sensitive, critical data



Cloud Applications

Directory / Metadata / access / classification Adya/CV/CloudTrail

Unstructured Data Discovery

Qualys Cloud Platform

Visibility in ITAM – Know Assets hold sensitive data

Secure through PC - Create permission/share/access controls to check their access

Compliance

GDPR / CCA / HIPAA/ etc

Monitor them through FIM



NAS

salesforce

Directory | Metadata |

On Premise Unstructured Data

Desktop





